Field Trip No. 2

Bogan-Macquarie Outbreak Area &
Central Tablelands

3 – 16/2/1937

K. H. L. Key

Second Field Trip. [C1703] 95

3-16/2/~~37~~.37

Bogan-Macquarie Outbreak Area & Central Tablelands.

3/2

Canberra 77 mo.

From Yass to Cowra hilly country all the way. Yass to Boorowa dense pasture. Boorowa to Cowra, from 43 mo., a consid. amount of timber, mostly on tops of low ranges to left of road. There is no doubt that this would ~~be~~ seriously hinder movements of swarms.

Sited 60 ~~Sited~~ The hills at 62 mo rather dry; thin ~~f~~oot to mon on pasture. Red-brown soil. Aus. troiceetes pusilla Dac. pusilla

~~The~~ From 15 to 5 mo. before Cowra the country became drier & flatter, & the pasture, though still close, sparser. Wheat in the 10 mo before Cowra. This region is at a greater distance from the mountains on the west, which appeared continuous & timbered all the way.

At ca. 10 mo. before Canowindra, Callitris gap there seemed a gap in the mountains on left. From 10 mo. on country drier, bare patches ground visible at roadsides, but much cow-pea present. Country given over to wheat all way from Cowra to Canowindra.

61 Peakesia fusco-maculata

Site 1 ca. 1 or 2 mo. from Canowindra along Eugowra

road. Paddock at roadside, with various dicots. up to 18 ins but many thin bare patches. Fair nos. scattered herm. adults. Acrida & Phaneroptera frequent, also herm. nymphs all ages. Oedaleus rare. Soil sample.

Within a few miles of site 1, patches of timber began to appear, and these increased towards Engowra. On the right there was heavy timber & mountains stretching a long way north, of considerable breadth (all the way from ca. 5 ms east of Canowindra to ca. 15 ms. east of Forbes. On the left, however, there was only broken timber, probably for about ten miles, corresponding to gap between 5 of Canowindra. The timber here was sufficient cover to impede progress of swarms, but not to prevent it. Soil more or less similar to that at Canowindra all way, but prob. paler & lighter. At 14 ms from Forbes we definitely enter the plains, but belts of trees still occur. Odd Calliptamus at

way.

Actually the trees on the plain proper were if anything thicker than those among the hills. This must be looked into. The pinkish soil is reminiscent of 10A & Narrabri

Site 2. Mrs. Tout's property at Garema. Cryptobothrus chrysophorus, Pyrgotoma scariformis

62 Austroicetes pusilla

Heavy grey loam. Fairly numerous nymphs of them all ages. Dry pasture of grass & saffron thistle ~~with~~ somewhat thin. A few pusilla, Oedaleus, Praxibulus, Dry Eumastacoidea one Cryptobothrus under gum. Thereafter sparse infestation as observed. Good rain at Christmas. Property eaten out 1932-5. Soil sample. Tout said there were more grasshoppers now on the property than in any normal year — more than any time since 1934-5. This heavier grey soil had myall-Casuarina association

63 Peakesia fusconaculata

Site 3. O'Brien's, 5 ms N of Forbes. Red sandy loam. Grass, Salvation Jolly Polly, thistle, bare patches. Less. about as numerous as in Site 2, but more adults. pusilla & Oedaleus also more numerous. Occasional Peakesia & Acrida. Soil sample. O'Brien said this site had

permanent marsh. pop., but not as numerous as now. Visited 1934–5.

[Trip to Gareema. Forbes 37 mo. ~~Bo~~ Ap 44 mo. soil became mixed — heavy grey-brown, reddish, etc., mainly heavier than at Forbes, 13 mo. to Gareema.]

Soil towards Parkes reddier & heavier, giving especially in last 10 miles.
a red loam, frequently with quartz chips, or on rare, ironstone gravel. Slightly undulating from Forbes to Parkes.

Site 4. Between Forbes & Parkes. Pasture up to 1ft Peakesia fuscomaculata, Macrotona securiformis
with bare spaces. Hem. nymphs, occasional Eurymeloptona & Peakesia.

5/2. Spent morning with Bartlett. Several interesting pts. emerged:– (1) Sep. gen. in 1933-4 accepted as prob. (2) Morice record doubtful. (3) detailed control scheme (4) approval for my scheme. Intervening of various heads separately recommended. No reference to his scheme (5) He proposes publish his scheme if poss., 2 to enquire re Council Journal.

65 Ecphantus sp. Peakesia fusconaculata
site 5. Golf Links. Pasture very sparse,
mostly a few dead grass stems up to 1ft.
Red loam (acc. to B.) Pusilla very definitely
dominant. Few Lem., esp. nymphs; one
Ecphantis, few Oedalens. On edge of links,
among 1ft. saffron thistle & little grass,
Lem. dominant, esp. nymphs, in quite fair
nos. Few Peakesia, Aerida, one Ecphantis,
prob. few pusilla.
66 Pycnosticteus scriatus, Peakesia
site 6 (old site!) Is much same cond. as
fusconaculata Brachycercus interiorus
on previous visit. Few scattered Lem
adults & hoppers, few Peakesia, ~~pusilla~~,
~~Hemisiritus~~ Pycnosticteus & Brachycerca (!).
No Cratilopus. 1 Jamaica nymph. Few Oedalens.

Parks to Condobolin. Soil becomes darker
red (burnt sienna).

67 heavy
Site 7 - ca. 8 miles out of Parks. Dark red loam, very
few quartz chips. Salt-bush stems & many small salty pollies.
Scattered thin 1ft. grass. Few nos. scattered Lem
adults. A few hoppers, ~~Oeco~~ pusilla & Pycnosticteus
Occasional Peakesia & Oedalens. Soil sample.

As far as Bogan Gate, very heavy chocolate
loam & then a mile medium red loam & light

red loam. Country at Bogan Gate mostly medium. Soil beyond Bogan Gate light red loam for some miles then ~~red~~ ~~Grey~~ ~~brown~~ light chocolate. Dem adults at all sites examined. Notes same on site 7 associated with pusilla, ~~Pyrochroa~~ Cedalus australis, Diclopus tannulus, Schizobothrus flavovittatus, Brachyspasma, Colupennis, Monistria pustulifera inter P. pustulosa & P. malle (R) (nymphs & adult) Moraba Schizobothrus, Diclopus, Monistria & Moraba cultrata cultrata (R), Austroicetes pusilla in association with the hollows. Diclopus pusilla

Site 8 At 31 mls. malle is suddenly in country. Pasture dense. Water-hollows. ~~Dem~~ ~~adult~~ ~~&~~ ~~nymphs~~ ~~in~~ ~~association~~ ~~with~~ ~~the~~ ~~hollows~~. Diclopus pusilla ~~dem~~ in ~~abundance~~ ~~same~~ ~~as~~ ~~site~~ ~~7~~. ~~Many~~ ~~diff~~ ~~species~~ ~~of~~ ~~Acrid~~ ~~&~~ ~~Locust~~ ~~on~~ ~~plain~~, ~~probably~~ ~~due~~ ~~to~~ ~~the~~ ~~hollows~~ ~~in~~ ~~association~~ ~~with~~ ~~malle~~ ~~&~~ ~~mallee~~ ~~&~~ ~~belah~~ ~~&~~ ~~myall~~ ~~&~~ ~~Pycnostictus~~ sp. n., Chortoicetes terminifera

Site 9 34 mls. ~~Similar~~ ~~country~~. Small swarm of 5th instar dem Diclopus & recently mature flyers. Swarm of quite fair density. Hoppers grey in colour. Clubbing among bushes for night. Area soil samples of probable eggbed from which swarm originated. This country has malle & myall. Low timbered hills scattered about. Grass 1-2 ft very sparsely 3 ft. Several species some low with spreading heads. (Chloris?) Thistle, skeleton weed,

the. water holes.

Site 10 70.
Condobolin. Pink loam with small quartz stone chips. Loose swamp hoppers (3-5 mm) adults, Sibl sample. Ens grass with much bare ground between. Leica 41 & 42 Ronda (1) & Pycnosticbus (1) one tem paracop.

Site 11 71
Just N of cond. on trundle Rd. Heavy brick red loam. Medium swamp flyers. Just hoppers on road sat edges wheat. having app. bred on bare road sides

from ca 9 to 16 ms. from Cond. light reddish sandy gravelly loam with more timber. Runs as far as Tafield medium red loam with very thick quartz gravel. Malle, myall (?), occ. emiga, occ. Casuarina, also low gum. Country in hilltop cond. green.

From Tafield to Tullamore. the same alternation of red loam & coarse white gravelled lighter red loam.

Site 12 72
Tullamore Mr. Thompson. Had never had them before in 10 years. Just in last bad outbreak (1939-42?). Light red loam on bank of creek with reds. Ith pasture

Heronman
Arthur Cornett.

at present with many spaces & some small scalded patches. Flyers noticed & laid, finding in creek. ~~Can from NE, & left E.~~ Seen by aeroplane pilot at 5000 ft. crossing great distances of timber. This was a second lot 5-6 months after lot that laid. These did not lay, but passed, coming from NE & going out E. (Unseasonly this sight is only an intermediate one)

site 13. Creek margin & banks. On margin, short moist pasture & bare space. Diolopus tammulus, Peakesia fasconaculata, Pycnoscheting ~~Ajuteiggio~~, Ordales, Gratidia, Bennius brachycerus planicola (R), Austroicetes interioris, Orsa (?) mostly nymphs, Acrida (numerous), Peakesia, Diolopus.

[Arthur Cornett: Aviator was Pilot R. Watt, Melbourne.]

site 14. Ca. 10 miles N of Tallamore along Tottenham road, very light sandy soil with mostly mallee, some acacia sp., a little Callitris. ~~Bush~~ In places 3 ft. Eucalyptus shoots. Much fallen branches, sticks & leaves. Practically no grass. Sweet tree Cisthula pyrrhocnemis, Onalotta maculata, Phaulacridium vittatum, Coprosoma quarty reddish.

species.

From 12 miles west Yeeumbery was of the light nature with light mallee timber (with occasional ringed trees) on light red loam with coon-bark & mallee ironbark &. Three or four miles (2.7 miles) out of Albert light red loam reappeared with box. [Man in Albert said the hoppers were bad at Dandaloo.]. Several stops were made in this stretch from 12 miles to Albert but no tern seen. This would be the limits over which Thompson said swarms had flown in 1934. Probably tern. would not originate between Tedarson & Albert.

Site 75 ca. 4 miles W of Albert. Light brown soil with dicots. partly under heavy fresh adults & nymphs (few also a couple of fifth instar). Oedaleus.

[Bates: Small to medium hatchings locally in '1934' & also extensive invasion of flyers. Small nos. probably came in in end of 1933, producing the local hatchings in 1934. Came in mostly from E & NE. Bates considers Tranjie Warren area to be the source of

(3)

Tremeda australis

Mr. Kidstone 113.

Jan 1925 Bonn [illegible]

to the W. of Boorowa Flowers is reached. E
In general, then, swarms could penetrate
further inland, to Orange or to Cradkudl,
but not in most of the intervening
country.

Mt. Harris

[Notes on trip toward ~~Young~~ Warren 17 ms.
32.8 – 33.2 large dense swarm ca
100 per ft² on ground.
Country to this point light red sandy
loam – very little heavy – consid. clay
pans, abs. flat. No hoppers seen.
Flyers moving against gentle breeze.
(E) when disturbed moved down
wind & at 41.6. Flyers in smaller
nos all way from Warren.
35 ms. Patch heavy light grey self-
mulching soil (7) Another large swarm
flyers. Soil sample 1.
36 ms. Heavy swarm } General dir. flight
37.8 ms " " } E.
45.2. Fair nos scattered flyers & hoppers

soil sample 2. Leica 4.
49.7 ums. Typical clay pan, soil sample
3. Leica 45.
site 23 : Bulk soil sample from
small plain between towers & Quinn.
Fair nos. adults & nymphs about.
Many bare spaces.

85
Chorioceteo terminifera

Leica 41. Site 70.

Condobolin

Leica 42. Site 70. Condobolin

Leica 45. 33 miles N of
Warren on Queanbeyan road.
Typical Claypan.